				10			20			3	0			40			50			·. 60	
1	GCA	GGC	GCG	CCG	GAG	CCG	GCC	CCG	TAG	CGT	GCC	ATG M	GCC A	TGC C	TAC Y	ATC I	TAC Y	CAG Q	CTG L	CCC P	60 9
				70			80			90			10	00			110			120	
61 10		TGG W	GTG V	CTG	GAC D	GAC D	CTG	TGC C	CGC R	AAC N	ATG M	GAC D	GCG A	CIC	AGC S	GAG E	TGG W	GAC D	TGG	ATG M	120 29
			1.	30			140		·.	150		٠.	•	60 -	·: .		170 .			180	
_							ATC	ACA		CIG	ACC		CTG	_		ATC			ATG	_	180
30	E	F	Α	S nn	Y	۷	1	J	D		1	Q	Į.	R	K	1	K 270	S	M	E	49
181	CCC	CTC	CAG	90 	CTC		200 ATC	ACC	ccc	210	CTC	CTC		20 TCC	TCC		230 ATG	CCC.	ርለር	240 GCC	240
50	_	V	Q	G	V	S	I	T	R	E	Ĺ	L	. M	W	W	G	M	R	Q	A	69
			25	50			260			270			28	30			290			300	
241 70	ACC	GTC V	CAG Q	CAA	CTT	GTG V	GAC D	CTC	CTG	TGC C	CGC R	CTG L	GAG E	CIC	TAC	CGG R	GCT A	GCC A	CAG Q	ATC	300 89
	•	٠		10	•	•	320	-	_	330	••	•		10			350 ⁻	••	4	360	. 05
301	ATC	CTG		•	AAA		•	CCT	GAA	•	AGG	TGT		. •	CCA		TTC	CCT	GAC	TCT	360
90	I	ſ	N	W	K	Р	A	Р	Ε	}	R	· C	Р	i	Р	A	F.	Р	D	S	109
			37	70		•	380			390			4(00		•	410			420	
361 110	GTG V	AAG K	CCA P	GAA E	AAG K	CCT	T TG	GCA A	GCT A	TCT S	GTA V	AGA R	AAG K	GCT A	GAG E	GAT D	GAA E	CAG Q	GAA E	GAG E	420 129
			43	30			140			450			48	60			1 70			480	
		_	CCT					ACC	_						_		GCC				480
130	G	Q	P 49	V an	R	M	A 500	1	F	P 510	G	Р	G 50	S 20	S	Р	A 530	R	Α	Н 540	149
481	CAG	CCC		•	ሶፕር		•	CCT	CVV	•		CCC		•	TCC		AGA	ACC	GAC	•	540
150			A			Q			E			A	P				R	S	D	L	169
		•	55	0			60			570			. 58	30			90			600	
541 170			TCG S		GAT D	TCA S		GAĆ D		AGC S	ACC T	TCC S	ATT I	CCT P	AAG K	CAG Q	GAA E	AAA K	CTT	TTG	600 189
-		•	61		_		520	_		630	-	•	64		•		550	•	-	660	
601 190		TTG L	GCT A		GAC D	AGC	CTT	TTC F	TGG	AGT	GAG E			GTG	GTC V	CAG	GCA A	ACC T	GAT D	GAC	660 209

FIG. 1A

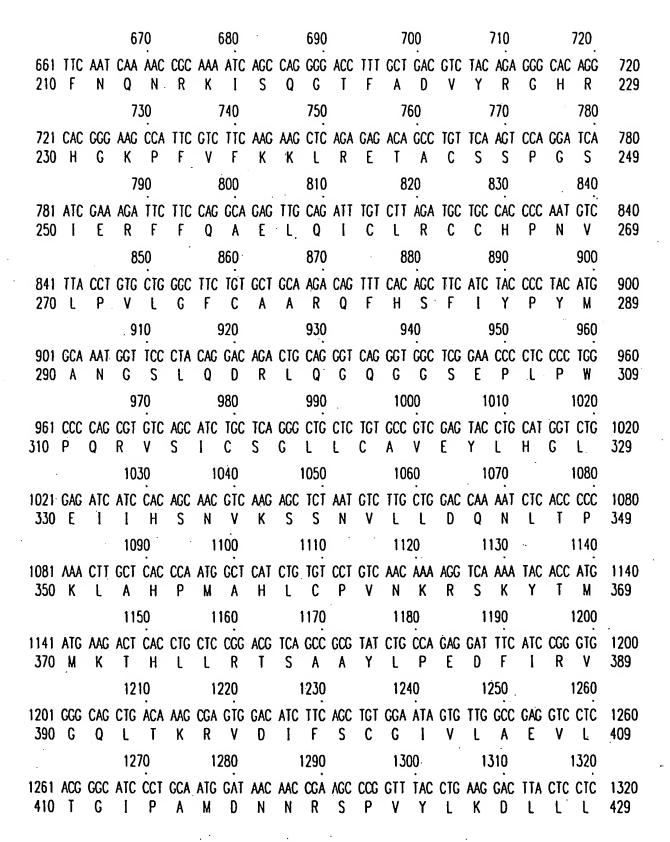


FIG. 1B

1380 1370 1330 1340 1350 1360 1321 AGT GAA ATT CCA AGC AGC ACC GCC TCG CTC TGC TCC AGG AAG ACG GGC GTG GAG AAC GTG 1380 SLCSRKTGV 449 430 S Ε I P S SI Α 1420 1430 1440 1400 1410 1390 1381 ATG GCA AAG GAG ATC TGC CAG AAG TAC CTG GAG AAG GGC GCA GGG AGG CTT CCG GAG GAC R L. G Ε 469 Ε K G A K Ε 1 C Q K Υ L 1470 1480 1490 1500 1450 1460 1441 TGC GCC GAG GCC CTG GCC ACG GCT GCC TGC CTG TGC CTG CGG AGG CGT AAC ACC AGC CTG 1500 ATAACLC Ţ 489 L R R R N 470 C E A L 1550 1560 1520 1530 1540 1510 1501 CAG GAG GTG TGT GGC TCT GTG GCT GTG GAA GAG CGG CTC CGA GGT CGG GAG ACG TTG V E E R L R G R Ε 509 G S Α A 490 Q Ε ٧ C ٧ 1620 1590 1600 1610 1570 1580 1561 CTC CCT TGG AGT GGG CTT TCT GAG GGT ACA GGC TCT TCT TCC AAC ACC CCA GAG GAA ACA 1620 Ε 529 G Ţ G S SS N T Р S G L S Ε 1660 1670 1680 1640 1650 1630 1621 GAC GAC GTT GAC AAT TCC AGC CTT GAT GCC TCC TCC TCC ATG AGT GTG GCA CCC TGG GCA 1680 D A S S S M S ٧ A 549 SSŁ 530 D ٧ D N 1730 1720 1700 1710 1690 1681 GGG GCT GCC ACC CCA CTT CTC CCC ACA GAG AAT GGG GAA GGA AGG CTG CGG GTC ATC GTG 1740 569 E G R L R 'A T LPT Ε N G Р L 1780 1790 1800 1750 1760 1770 1741 GGA AGG GAG GCT GAC TCC TCT GAG GCC TGT GTT GGC CTG GAG CCT CCC CAG GAT GTT 1800 GLE 589 SSSEAC Р 0 E A D ٧ 570. G R 1801 ACA TAA 1806 590 T 590

FIG. 1C

				10			20			30				40			50			60	
1	GCA	CCC	GCG	CCC	GAG	CCC	CCC	CCC	TAG	CCT	CCC	ATG	CCC		TAC	ATC	TAC		CTG	CCC	60
1			•									М	A	C	Y	l	Y	Q	L	Р	9
				70			80			90				100			110			120	
	TCC			CIG	_		CIG							CIC				GAC		ATG	120
10	S	W	٧	L	D	D	Į,	C	R	N	M	D	A	L	S	Ε	W	D	W	М	29
				30			140			150				160			170			180	
	GAG		_		TAC	GTG	ATC	ACA		CTG	ACC		CTG			ATC				GAG	180
30	Ε	F	A	S	Y	V	I	I	D	L	I	Q	Ł	R	K	l	K	S	M	Ε	49
				90			200			210				220			230			240	
	CCC						ATC	_			CTG	CTG					ATG				240
50	R	٧	Q	G	V	S	I	Ī	R	Ε	L	L	W	W	W	G	M	R	Q	Α	69
				50			260			270				280			290			300	
					CII	GIG	GAC	CTC	CTG			CTG	_	CIC				GCC		ATC	300
70	Ţ	٧	Q	Q	·Ĺ	V	D	L	Ĺ	C	R	· [Ε	Ĺ	Y	R	A	A	Q	I	89
				10			320			330				340			350			360	
	ATC	CTG					GCT			ATC				ATT				CCT	GAC	TCT	360
90	i	L	N	W _.	K	Ρ	A,	Р	Ε.	I	R	C	Р	I	P	A	F	Р	D	S	109
			_	70			380			390				400		-	410			420	
	GTG	_	-	-		CCT	TTG	GCA	GCT				AAG		•	GAT		CAG	_	GAG	420
110	V	K	P	E	K	þ	L	A	A	S	٧	R	K	Α	E	D	E	Q	Ł	E	129
			4.				440			450				460			470			480	
		_					CCC	ACC	III					TCC			GCC			CAC	480
130	G.	Q	P	V	R	M	A	1	F	Р	G	P	G	S	S	P	A	R	A	Н	149
	010	000	49				500		•••	510				520	700	***	530			540	
	CAG		CCC		CTC		CCT						_	CAT	ICC	TTG			GAC	CIC	540
150	Q	Р	A	F	L	Q	Р	Р	E,	E	D	A	P	Н	S	L	R	S	D	L	169
644	000	407	55		047		560	040	***	570		T00		580		010	590		0 TT	600	
	CCC	ACI	TCC		GAT		AAG	_	IIC	AGC	_		ATT	CCT		CAG		AAA	CII	TIG	600
170	Р	ſ	S	S	D.	S	K	D	ł	S	1	S	1,	Р	K	Q	E	K	L	CC0	189
ĊOI	ACC	TTO		0	010		520	TTO	TOO	630		001		540	OTO	010	650		CAT	660	cco
																				GAC	
130	S	L	A		D	_		F	W	S	E	A	-	٧	٧	Q		Ţ	D	D 700	209
661	TTC	AAT	67		CCC		680	100	C4C	690	100	TTT		700	^ T ^ .	TAC	710		CAC	720	מפל
	F		CAA O		R		ATC I	AGC S		G	ACC T		_	D	V.	Y	AGA R	G	H	AUG R	720
210	r	14	-		Л	K.	•	3	Q		ı	F	Α.	_	٧	,			п		229
721	CKC	CCC	73		TTO		740	A A C		750 CTC	AC A	CYC		760	TOT	TCA	770		CC r	780 TCA	700
	H		AAU K		F	7	TTC F	AAG K	AAG K	L	aga R	GAG E	ACA T	A	C	ICA S	AG I	P	G		780
230	11	v	v	٢	ſ	٧	Г	N.	V	_	K	C	•		C	3			G	_	249
			70	Λ		•	מחמ			010			•	ארנ			070	l .		040	
701			79		TTO		300	040	TTC	810	ATT	TOT		320	TOO	TOO	830		AAT	840	040
781 250	ATC	GAA E			TTC F		BOO GCA A	GAG E	TTG		ATT	TGT C			TGC C	TGC C			AAT N		840 269

			85	n		8	60			870			8	80			890	ı		900	
841 T	TA (CCT			GGC			GCT			CAG	III			TIC	ATC			TAC		900
270		ρ	٧	L	G	F	C	Α.	A	R	Q	F	Н	S	F	1	Υ	p	Υ	М	289
	_		- 91	n	•	q	20			930	-		9	40		,	950			960	
901 G	CA .	AAT			CTA			AGA			CGT	CAG			TCG	GAC			CCC	TGG	960
	A	N.		S	L	Q	D	R	L	Q	G	Q	G	G	S	D	Р	L	Р	W	309
		•	97	0			80		-	990			10	00			1010			1020	
961 C	CC	CAG			AGC			TCA			CTC	TGT			GAG	TAC			GGT	CTG	1020
	Р	Q		٧.		l	C	S	G	L	L	C	Α	٧	E	Y	L	Н	G	L	329
			10	30	•	1	040			1050			10	60		1	070			1080	
1021	GAG	ATC			AGC		-	AAG	AGC			GTO			GAC	CAA	AAT	CTC	ACC	CCC	1080
	Ε	I	1	Н	S	N	٧	K.	S	S	N	٧	L	L	D	Q	N	l	• 1	Р	349
			10	90		1	100			1110			11	20		1	130			1140	
1081	AAA	CTT	GCT	CAC	CCA	ATG	GCT	CAT	CTG	TGT	CCT	GTC	AAC	AAA	AGG	TCA	AAA	TAC	ACC	ATG	1140
350	K	Ĺ	A	· H	Ρ	M	A	Н	L	C	Ρ	V	N	K	R	S	.K	Y	1	М	369
			11	50		1	160			1170			11	80	-	1	190			1200	
1141	ATG	AAG	ACT	CAC	CTG	CTC	CCC	ACG	TCA	GCC	CCC	TAT	CTG	CCA	GAG	GAT	TTC	ATC	CCC	GTG	1200
370	М	K	T	H	L	Ĺ	R	Ţ	S	Α	Α	Y	L	Р	£	D	F	l	R	٧	389
			12	10		13	220			1230			12	40		1	250			1260	
1201 (GGG	CAG	GTG	ACA	AAG	CGA	GTG	GAC	ATC	TIC	AGC	TGT	GGA	ATA	GTG	TTG	GCC	GAG	GTC	CIC	1260
390	G	Q	. ۷	T	K	R	٧	. D	İ	F	Ş.	C	G	I	٧	L	Α	Ε	٧	L.	409
				70			280			1290				00			310			1320	
1261			ATC		GCA										CTG			TTA	CTC		1320
410	T	G	I	Р	A	M	D	N	N	R	S	Ρ	٠ ٧	Y	ſ	K	D	L	L.	Ĺ	429
				30			340			1350				60			370			1380	. = = =
1321															_			GAG			1380
430	S	E	1	P.	S	S	T	A	S	L	С	S	R	K	I	G.	٧	Ε	N	٧	449
4.704				90			400			1410				20	000		430	000		1440	4440
1381 /		_		_	AIC												CTT	_	_	_	1440
450	М	A	K	Ł	í	C	.Q	K	Υ	1.70	E	K	G	A	G	R	L	Р	E	D	469
1441	T00	000		50	οτο		460			1470				80			490	400	100	1500	1500
1441	11.1	144.	I.AL.	1.0	1111	1.1	AL Ja	tst. i	1,(.(.	11.1	しし	166	しし	ししし	AGG	WI	AAL	ALL	AGC		
															D	D		т	C		
170	C	A	£	A		A	Ţ		A	C	L		L	R	R	R	N	T	S	1500	489
	С	A	E 15	A 10	L	A 1:	T 520	A	A	C 1530	Ĺ	С	L 15	R 40		1	N 550	•		1560	
1501 (C Cag	A GAG	E 15 GTG	A 10 TGT	L GGC	A 1: TCT	T 520 GTG	A GCT	A GCT	C 1530 GTG	L GAA	C GAG	L 15 CGG	R 40 CTC	CGA	GGT	N 550 . CGG	GAG	ACG	1560 TTG	1560
	C Cag	A GAG	E 15 GTG V	A 10 TGT C	L	A 1: TCT S	T 520 GTG V	A	A GCT A	C 1530 GTG V	GAA E	C GAG	L 15 CGG R	R 40 CTC L		GGT G	N 550 . CGG R	•	ACG T	1560 TTG	
1501 (490	C CAG Q	A GAG E	E 15 GTG V 15	A 10 TGT C 70	CGC G	A 15 TCT S	T 520 GTG V 580	GCT A	GCT A	C 1530 GTG V 1590	GAA E	C GAG E	15 CGG R 16	R 40 CTC L 00	CGA R	GGT G	N 550 CGG R 610	GAG E	ACG T	1560 TTG L 1620	1560 509
1501 (490 1561 (C CAG Q CTC	A GAG E CCT	E 15 GTG V 15 TGG	A 10 TGT C 70 AGT	CCC G C	A 15 TCT S 15 CTT	T 520 GTG V 580 TCT	A GCT A GAG	A GCT A GGT	C 1530 GTG V 1590 ACA	GAA E GGC	C GAG E	L 15 CGG R 16 TCT	R 40 CTC L 00 TCC	CGA R	GGT G 1 ACC	N 550 CGG R 610 CCA	GAG E GAG	ACG T	1560 TTG L 1620 ACA	1560 509 1620
1501 (490	C CAG Q CTC	A GAG E CCT	E 15 GTG V 15 TGG W	A 10 TGT C 70 AGT S	CGC G	A 15 TCT S 15 CTT L	T 520 GTG V 580 TCT S	GCT A	A GCT A GGT G	C 1530 GTG V 1590 ACA T	GAA E GGC G	C GAG E	L 15 CGG R 16 TCT S	R 40 CTC L 00 TCC S	CGA R	GGT G 1 ACC	N 550 CGG R 610 CCA P	GAG E	ACG T GAA E	1560 TTG L 1620 ACA T	1560 509
1501 (490 1561 (510	CAG Q CTC L	GAG E CCT P	E 15 GTG V 15 TGG W	A 10 TGT C 70 AGT S	CCC CCC CCC	A 15 TCT S 15 CTT L	T 520 GTG V 580 TCT S	A GCT A GAG E	GCT A GGT G	C 1530 GTG V 1590 ACA T 1650	GAA E GGC G	C GAG E TCT S	L 15 CGG R 16 TCT S	R 40 CTC L 00 TCC S	CGA R AAC	GGT G 1 ACC T	N 550 CGG R 610 CCA P 670	GAG E GAG E	ACG T GAA E	1560 TTG L 1620 ACA T 1680	1560 509 1620 529
1501 (490 1561 (510	CAG Q CTC L	A GAG E CCT P	E 15 GTG V 15 TGG W	A 10 TGT C 70 AGT S 30 GAC	CCC CCC CCC	A 15 TCT S 15 CTT L	T 520 GTG V 580 TCT S 640 AGC	A GCT A GAG E	GCT A GGT G	C 1530 GTG V 1590 ACA T 1650	GAA E GGC G	C GAG E TCT S	L 15 CGG R 16 TCT S	R 40 CTC L 00 TCC S	CGA R AAC	GGT G 1 ACC T	N 550 CGG R 610 CCA P 670	GAG E GAG E	ACG T GAA E	1560 TTG L 1620 ACA T 1680	1560 509 1620

•																			
			1690		1700			1710			172				730			740	
1681	CCC	GCT	GCC ACC	CCA	CTT CTC	CCC	ACA	GAG	AAT	CCC	GAA	GGA	AGG	CTG	CCC	GTC	ATC (GTG	1740
550	G	A	A T	Ρ	LL	Р	T	Ε	N	G	Ε	G	R	L	R	٧	[٧	569
			1750		1760			1770			178				790			800	
1741	GGA	AGG	GAG GCT	GAC	TCC TCC	TCT	GAG	GCC	TGT	GTT		CTG						GTT	1800
570	G	R	E A	D	S S	S	E	A	C		G	L	Ε	Р	Р	Q	D	٧	589
			1810		1820			1830			184			-	350		-	860	
1801	ACA	GAA	ACT TCG	TGG	CAA ATT	GAG	ATC							CTG				_	1860
590	Ţ	Ε	T S	W	Q I	Ε	1	N	Ε	A	K		K	L	М	Ε	• • •	i	609
			1870		1880			1890			190				910			920	
		CTC	TAC AAA													IGA	CCC (GAA	1920
610	L	Ļ	Y K	Ε	E K	٧	D	S	I	Ε	L	F	G	Р	*				625
			1930	•	1940			1950				60			970			980	4000
1921	CAC	AGC	TGA GGA	CCC		TCA				AIG			AGA			ΑΛΑ			1980
			1990		2000			2010			20:			_	030		_	040	
1981	GAG	GCA	GAA TCC	AAG		CAG				AAC			ICI			CIG			2040
			2050		2060			2070			208				090		_	000	0400
2041	AGG	GAA	ACT TCA	III		AAT				GAG			CCT			HA			2100
			2110		2120			2130			214			_	150			160	0460
2101	CAA	AAA	TCC ATG	AAG						HG			AGA			GAI			2160
			2170		2180			2190		017	220				210	CIT	_	220	2220
2161	AGA	CIG	AAG CAG	AAA		ACA				GAI			GAI			611			2220
			2230	~	2240			2250		4 T T	220		004		270	CTT	_	280	าวอก
2221	AGI	AIG	TGA TGA	IAA		CCA				AII			GCA			611			2280
000+	004	0.10	2290	0.10	2300	CAT		2310		CAC	23		CAT	_	330	CTT	_	340 TTT	2340
2201	LUA	CIG	GCA GTT	CIG	•	CAI				CAU			GAI		390	GII.		400	2340
2741	CCT	ĊAC	2350 AGC CTG	CAA	2360	ATC		2370		ATT	23		CTT			TTT	_		2400
ZJ41	UUI	GAC		CAA		, AIG		10A 2430		AII	24		011		450	111		460	2100
2401	٨٨٨	ATC	2410 GGG TCT	ርርር የ	2420	CCC				CCA			ACT			GTG	_		2460
	WW	חוט	2470	000	2480							00			510	0.0		520	2.00
2461	TTA	CAT	TGG GAA	CCA										_		CAG	_		2520
2701	IIA	UNI			2540										570			580	
2521	TCT	GAC	TCA CCT																2580
2021	101	UNU	2590		2600				71071				00		630			640	
2581	CCA	CCC	TTT CCA	CTG									TAA			AGT	_	-	2640
2001	0011	OÓO	2650	0.0	2660							80			690			700	
2641	CTG	GTA	CCT TTA	TCT												. 111			2700
2011			2710		2720							40			750			760	
2701	GAG	ΛAT	ATG TGT	TCG												GTC	_		2760
	J. 1.0		2770	. 00	2780										810			820	
2761	GCT	GGA	GTG CAG	TGG												III			2820
	J J .	55.1	J. J 0110	. 55		5			J . J	_ ·	_ • •						-		

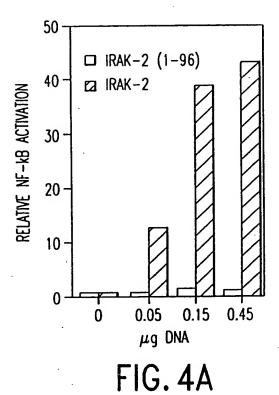
			28.	30		2	840			2850			286	60		28	370		2	2880	
2821	ATT	CTC	CTG	CCT	CAG	CCT	CCT	GAG	TAG	ATG	GGA	CTG	TAG	GCA	CCT	GCC	ACT	ATG	CCT	GGC	2880
			289	-						2910							930			940	
2881	TAA	Ш	TTG	TGT	111	TAG	TAG	AGA	CAG	GGT	TTC	ACC	ATA	TTG	CCC	AGG	CTG	GTC	TCG	AAC	2940
			29				960			2970							990		_	000	_
2941	TAC	TGA			GAT							CAA			GGG			GGC			3000
7004			30	-						3030			304)50	-		060	3000
3001	CAC	CGC																AAI			3060
7004				70 .													110	T 00	_	120	
3061	AAT	GCA	Ш	CAT	GTC													IGG			3120
		•	31.	30		3	140			3150			316	50		3	170		3	180	
3121	AGT	TTC	III	GTA	AGT	AAA	ATA	ACA	CCT	GCT	TGT	TCT	TCA	TCC	CTG	GGC	TGT	TGG	GAG	GAA	3180
			319	90		3	200			3210			322	20		32	230		3	240	
3181	CAG	ATG	AGA	CAG	TGG	CTA	TAG	AAG	CAC	TTG	GAA	AAT	GCA	CII	GTC	CTG	Π	TGT	AAA	ATA	3240
			325	50		32	260			3270			328	30		32	290		3	300	
3241	AAA	AGG	TAT	TAA	ATG	TGT	ATT	TCT	GCC	ATG	TAC	CTA	ATG	ATT	ATT	CAG	TGC	GTA	TAT	ATC	3300
			331	10		3.	320			3330			334	10		33	350		3	360	
3301	TGA	AAA	GTC	ATG	TTG	CAA	ATC	III	CTG	TGA	AAC	AGA	TGC	TAT	III	AAA	TTC	ACT	GGG	AGA	3360
			337	70		3.	380			3390			340	00		34	110		3	420	
3361	AAT	ATC	CTA	Ш	AAA	GTA	ATC	TAT	AGT	AAT	TTC	III	TTA	TAT	AAT	AAA	AAT	ATA	III	GTA	3420
			343	30		34	140		,	3450											
3421	AAG	TCG	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	,	3459						

FIG. 2D

1 1 1	MAGGPGPGEPAAPGAQHFLYEVPPWVMCRFYKVMD MSGVQTAEAEAQAQNQANGNRTRSRSHLDNTMAIRLLPLPVRAQLCAHLD MACDDLCRNMD MACDDLCRNMD	IRAK Pelle HNFIP11X IRAK-2 Alpha HNFIP11XX IRAK-2 Beta
36 51 22 22	ALEPADWCQFAALIVRDQTELRLCERSGQRTASVLWPWINR-NAALDVWQQLATAVKLYPDQVEQISSQKQRGRSASNEFLNIWGGQYNHALSEWDWMEFASYVITDLTQLRKI-KSMERVQGVSITRELLWWWGMR-QAALSEWDWMEFASYVITDLTQLRKI-KSMERVQGVSITRELLWWWGMR-QA	IRAK Pelle HNFIP11X IRAK-2 Alpha HNFIP11XX IRAK-2 Beta
79 97 70 70	RVADLVHILTHLQLLRARDIITAWHPPAPLPSPGTTAPRPSSIPAPAEAE TVQTLFALFKKLKLHNAMRLIKDYVSEDLHKYIPRSVPTISE TVQQLVDLLCRLELYRAAQIILNWKPAPEIRCPIPAFPDSVKPEKPLAAS TVQQLVDLLCRLELYRAAQIILNWKPAPEIRCPIPAFPDSVKPEKPLAAS	IRAK Pelle HNFIP11X IRAK-2 Alpha HNFIP11X IRAK-2 Beta
129 139 120 120	AWSPRKLPSSASTFLSPAFPGSQTHSGPELGLVPSPASLWPPPLRAAPDSSAKVNNGPPFPSSSGVSNSNNNRTSTTATEEIPSLEVRKAEDEQEEGQPVRMATFPGPGSSPARAHQPAFLQPPEEDAPHSLRSDLVRKAEDEQEEGQPVRMATFPGPGSSPARAHQPAFLQPPEEDAPHSLRSDL	IRAK Pelle HNFIP11X IRAK-2 Alpha HNFIP11X IRAK-2 Beta
172 182 170 170	PSPAPSSTKPGPESSVSLLQGARPSPFCWPLCEISRGTHNFSEELKIGEGSLGNIHISTVQRAAESLLEIDYAELENATDGWSPDNRLGQG PTSSDSKDFSTSIPKQEKLLSLAGDSLFWSEADVVQATDDFNQNRKISQG PTSSDSKDFSTSIPKQEKLLSLAGDSLFWSEADVVQATDDFNQNRKISQG	IRAK Pelle HNFIP11X IRAK-2 Alpha HNFIP11X IRAK-2 Beta
222 223 220 220	GFGCVYRAVMRNTVYAVKRLKENADLEWTAVKQSFLTEVEQLSRFRH GFGDVYRGKWKQLDVAIKVMNYRSPNIDQKMVELQOSYN-ELKYLNSIRH TFADVYRGHRHGKPFVFKKLRETACSSPGSIERFFQAELQICLRCCH TFADVYRGHRHGKPFVFKKLRETACSSPGSIERFFQAELQICLRCCH	IRAK Pelle HNFIP11X IRAK-2 Alpha HNFIP11X IRAK-2 Beta
269 272 267 267	PNIVDFAGYCAQNGFYCLVYGFLPNGSLEDRLHCQTQACPPLSWPQRLDNILALYGYSIKGQKPCLVYQLMKGGSLEARLRAHKAQNPLPALIWQQRFPNVLPVLGFCAARQFHSFIYPYMANGSLQDRLQGQG-GSEPLPWPQRVPNVLPVLGFCAARQFHSFIYPYMANGSLQDRLQGQG-GSDPLPWPQRV	IRAK Pelle HNFIP11X IRAK-2 Alpha HNFIP11X IRAK-2 Beta
317 322 314 314	DILLGTARAIOFLHQD-SPSLIHGDIKSSNVLLDERLTPKLGDFGLARFS SISLGTARGIYFLHTARGTPLIHGDIKPANILLDOCLQPKIGDFGLVR SICSGLLCAVEYLHGLEIIHSNVKSSNVLLDQNLTPKLAH-PMAHLC SICSGLLCAVEYLHGLEIIHSNVKSSNVLLDQNLTPKLAH-PMAHLC	IRAK Pelle HNFIP11X IRAK-2 Alpha HNFIP11X IRAK-2 Beta
366 370 360 360	RFAGSSPSQSSMVARTQTVRGTLAYLPEEYIKTGRLAVDTDTFSFGVVVLEGPKSLDAVVEVNKVFGTKTYLPPEFRNFRQLSTGVDVYSFGIVLLPVNKRSKYTMM-KTHLLRTSAAYLPEDFIRVGQLTKRVDIFSCGIVLAPVNKRSKYTMM-KTHLLRTSAAYLPEDFIRVGQVTKRVDIFSCGIVLA	IRAK Pelle HNFIP11X IRAK-2 Alpha HNFIP11X IRAK-2 Beta

416 416 407 407	ETLAGORAVKTHGARTKYLKDLVEEEAEEAGVALRSTQSTLQAGLAADAW EVFTG-ROVTDRVPENETKKNLLDYVKQQW EVLTGIPAMDNNRSPV-YLKDLLLSEIPSSTASLCSRKTGVENVMAKE EVLTGIPAMDNNRSPV-YLKDLLLSEIPSSTASLCSRKTGVENVMAKE	IRAK Pelle HNFIP11X HNFIP11X	
466 445 454 454	AAPIAMQIYKKHLDPRPGPCPPELGLGLGQLACCCLHRRAKRRPPMTQVY RQNR-MELLEKHLAAPMGKELDMCMC ICQKYLEKGAGRLPEDCAEALATAACLCLRRRNTS ICQKYLEKGAGRLPEDCAEALATAACLCLRRRNTS	IRAK Pelle HNFIP11X HNFIP11X	•
516 470 489 489	ERLEKLQAVVAGVPGHLEAASCIPPSPQENSYVSSTGRAHSGAAPWQPLAAIEAGLHRGRETLLPWSGLSLQEVCGSVAAVEERLRGRETLLPWSGLS	IRAK Pelle HNFIP11X HNFIP11X	•
566 477 517 517	APSGASAQAAEQLQRGPNQPVESDESLGGLSAALRSWHLTPSCPLDPAPL EGTGSSSNTPEETDDVDNSSLDASSSMSVAPWA-GAATPLLPT EGTGSSSNTPEETDDVDNSSLDASSSMSVAPWA-GAATPLLPT	IRAK Pelle HNFIP11X HNFIP11X	•
616 477 559 559	REAGCPQGDTAGESSWGSGPGSRPTAVEGLALGSSASSSSEPPQIIINPA CTALDPQDRPS ENGEGRLRVIVGREADSSSEACVGLEPPQDVT ENGEGRLRVIVGREADSSSEACVGLEPPQDVTETSWQIEINEA	IRAK Pelle HNFIP11X HNFIP11X	•
666 488 591 602	RQKMVQKLALYEDGALDSLQLLSSSSLPGLGLEQDRQGPEESDEFQS MNAVLKRFEPFVTD KRKLMENILLYKEEKVDSIELFGP	IRAK4 Pelle HNFIP11X HNFIP11X	

FIG.3B



100 - IL-IRS | IL-IRS | IRAK-2 (87-501) | IRAK-2 (1-96) | IRAK-2 (97-590) | IRAK-2

FIG. 4B

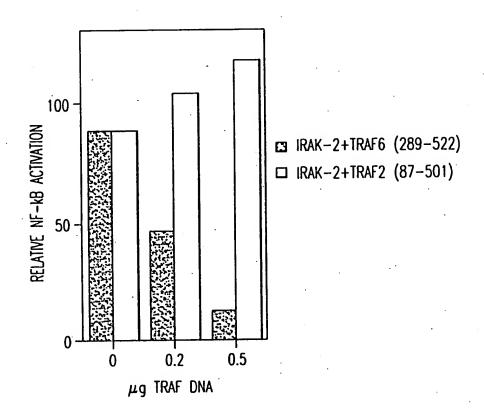
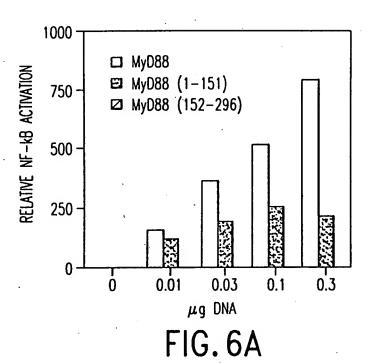
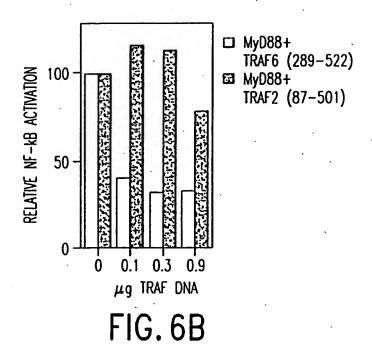
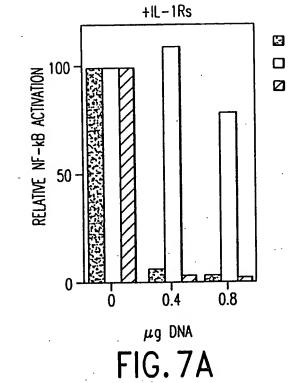


FIG.5

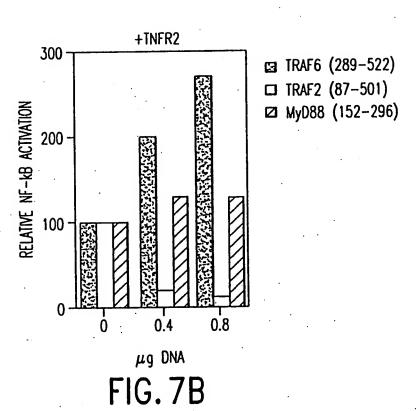


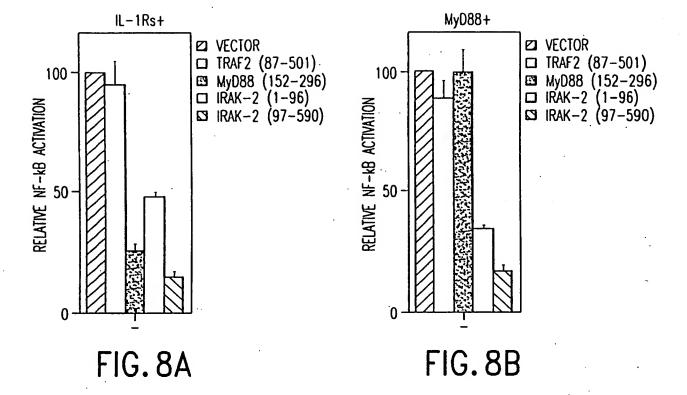


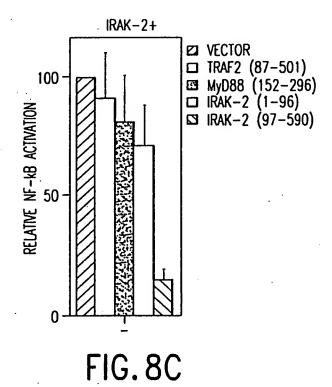


TRAF6 (289-522)

- □ TRAF2 (87-501)
- ☑ MyD88 (152-296)







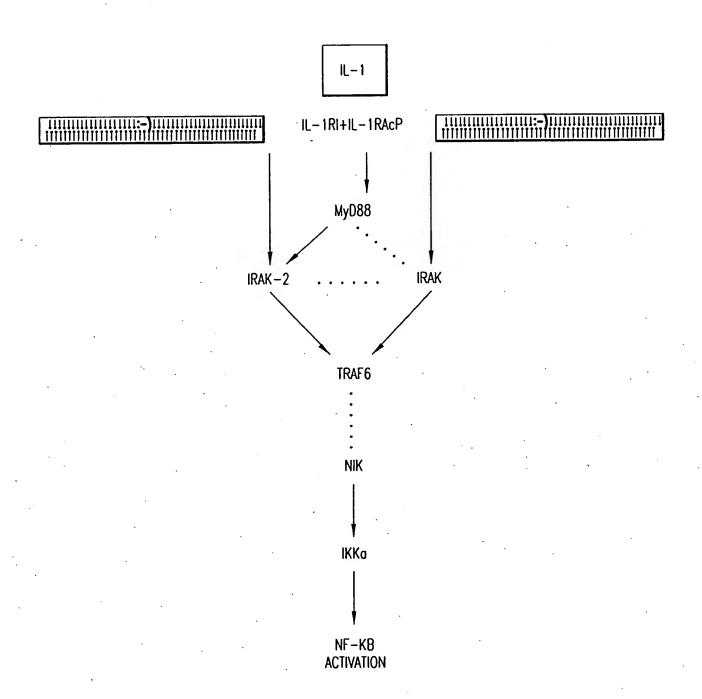
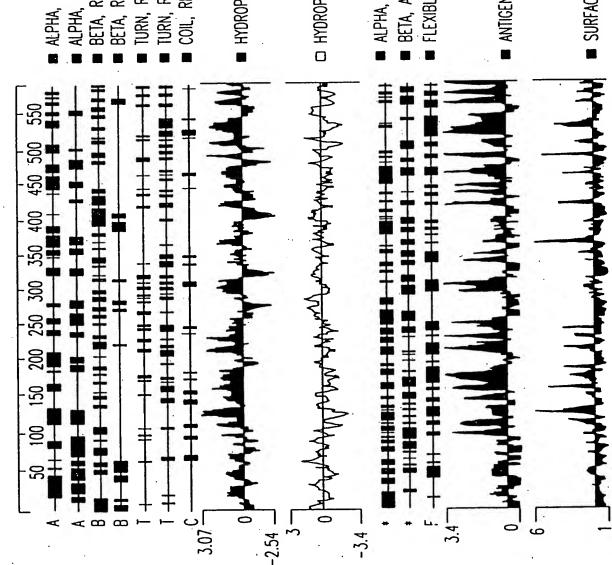


FIG.9





ALPHA, REGIONS-GARNIER-ROBSON

ALPHA, REGIONS-CHOU-FASMAN BETA, REGIONS-GARNIER-ROBSON

BETA, REGIONS-CHOU-FASMAN

TURN, REGIONS-CARNIER-ROBSON

TURN, REGIONS-CHOU-FASMAN

COIL, REGIONS-CARNIER-ROBSON

I HYDROPHILICITY PLOT-KYTE-DOOLITTLE

C HYDROPHOBICITY PLOT-HOPP-WOODS

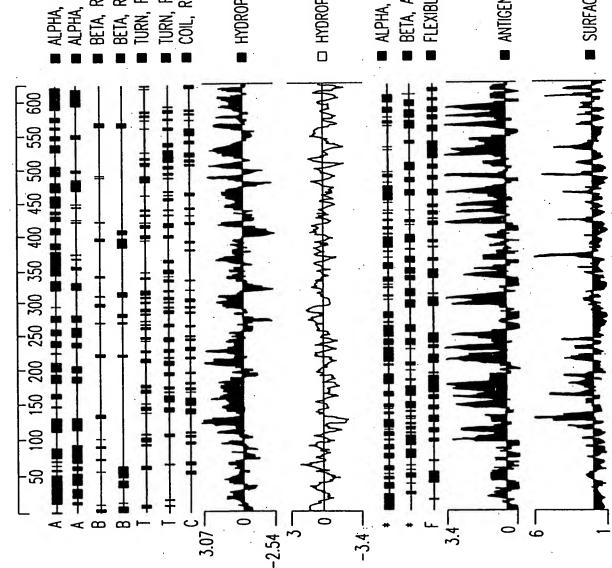
ALPHA, AMPHIPATHIC REGIONS-EISENBERG

BETA, AMPHIPATHIC REGIONS-EISENBERG

FLEXIBLE REGIONS-KARPLUS-SCHULZ

■ ANTIGENIC INDEX—JAMESON—WOLF

■ SURFACE PROBABILITY PLOT-EMINI



ALPHA, REGIONS-GARNIER-ROBSON ALPHA, REGIONS-CHOU-FASMAN

BETA, REGIONS-CARNIER-ROBSON

BETA, REGIONS-CHOU-FASMAN

TURN, REGIONS-CARNIER-ROBSON

TURN, REGIONS-CHOU-FASMAN COIL, REGIONS-GARNIER-ROBSON

■ HYDROPHILICITY PLOT-KYTE-DOOLITTLE

☐ HYDROPHOBICITY PLOT-HOPP-WOODS

ALPHA, AMPHIPATHIC REGIONS-EISENBERG

BETA, AMPHIPATHIC REGIONS-EISENBERG

FLEXIBLE REGIONS-KARPLUS-SCHULZ

■ ANTIGENIC INDEX-JAMESON-WOLF

■ SURFACE PROBABILITY PLOT-EMINI